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Recombinant Mouse CDKN2A/p16INK4a Protein, N-His

Catalog Number:	bs-105561P
Species:	Mouse
AA Seq:	1-135/168
Predicted MW:	16.64 kDa
Tags:	N-His
Activity:	Not tested
Purity:	>90% as determined by SDS-PAGE.
Purification:	AC
Form:	Lyophilized
Storage:	Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1%
	Mannitol.
	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for
	frequent use. Store at -20 to -80°C for twelve months from the date of receipt.
Background:	This gene generates several transcript variants which differ in their first exons. At least three
	alternatively spliced variants encoding distinct proteins have been reported, two of which
	encode structurally related isoforms known to function as inhibitors of CDK4 kinase. The
	remaining transcript includes an alternate first exon located 20 Kb upstream of the
	remainder of the gene; this transcript contains an alternate open reading frame (ARF) that
	specifies a protein which is structurally unrelated to the products of the other variants. This
	ARF product functions as a stabilizer of the tumor suppressor protein p53 as it can interact
	with, and sequester, the E3 ubiquitin-protein ligase MDM2, a protein responsible for the
	degradation of p53. In spite of the structural and functional differences, the CDK inhibitor
	isoforms and the ARF product encoded by this gene, through the regulatory roles of CDK4
	and p53 in cell cycle G1 progression, share a common functionality in cell cycle G1 control.
	This gene is frequently mutated or deleted in a wide variety of tumors, and is known to be an
	important tumor suppressor gene. [provided by RefSeq, Sep 2012].